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Art Unit 2152

Examiner Name Duyen Doan

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Patent  
LEM1.P946

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

<b>In re application of:</b> <b>Marc Lemchen</b>  <b>Serial No.: 09/746,947</b>  <b>Filed: Dec. 21, 2000</b>  <b>For: A METHOD AND APPARATUS FOR THE USE OF A NETWORK SYTSTEM FOR BIOFEEDBACK STRESS REDUCTION</b>	
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**Amended Summary of Claimed Subject Matter and Appendices**

**MPEP 1205.03**

**(v) Summary of Claimed Subject Matter.**

The claimed subject matter is a computer system for reducing mental stress in a person and a method using a computer to reduce stress. The system and method is arranged and configured so that a computer user, sitting in front of a personal computer in an office, home or any other location, can perform exercises while seated, which will tend to reduce emotional, nervous or mental stresses. Many computer users spend long hours in front of a computer and short, repeated stress reduction exercises can be performed through the computer which can materially reduce the stress levels of the user.

*Claim 1*

Claim 1 is directed to a biofeedback system for treating stress in a user by use the computer network, e.g. a client computer connected through the internet to a remote master computer, and one or more biosensors coupling the client computer to the computer user. The client computer runs a network controlled program which generates a modifiable schedule of stress reduction exercises which are personalized to the user. The stress reduction exercises are to be performed by the user interactively through use of the client computer and network. These stress reduction exercises are conventional mental exercises, breathing or relaxation exercises. They are not exercises to provide for physical fitness.

The computer receives biofeedback input from the user through sensors coupled to the user. The computer monitors compliance by the user with the schedule of stress reduction exercises. The schedule is modifiable according to the: (1) compliance of the user with the schedule; (2) performance of the user in the stress reduction exercises; (3) situational events to which the user is subjected; (4) biofeedback from the user during performance of the stress reduction exercises; or at times other than during the performance of the stress reduction exercises, (5) information input into the computer by the user relating to his or her personalized stress characteristics, and/or (6) information input into the computer by the user relating to his or her personalized stress related history.

Basis for claim 1 is found in Figs. 1 and 2 which shows program controlled computer 20 coupled to the computer network for executing a program to generate a modifiable schedule of stress reduction exercises personalized to the user 15 (para.

[0014], lines 1 – 6) and which stress reduction exercises are to be performed by the user 15 interactively through use of the computer 20 (para. [0024], lines 1 – 4). Fig. 2 shows the computer 20 receiving biofeedback input from the user 15 at step 106 (para. [0028], lines 9 – 12). Fig. 2 shows the program controlled computer 20 monitoring compliance by the user 15 with the schedule of stress reduction exercises at step 112 (para. [0031] lines 5 – 7). Fig. 2 at step 114 shows the schedule being modifiable according to the compliance of the user 15 with the schedule (para. [0032] lines 4 – 7), according to the performance of the user 15 in the stress reduction exercises (para. [0015] lines 4 -5), according to situational events to which the user 15 is subjected (para. [0015] lines 6 - 7), according to biofeedback from the user 15 during performance of the stress reduction exercises or at times other than during the performance of the stress reduction exercises (para. [0015] lines 7 - 10), according to information input into the computer 20 by the user 15 relating to personalized stress characteristics of the user 15 (para. [0015] lines 10 - 12), and/or according to information input into the computer 20 by the user 15 relating to personalized stress related history of the user 15 (para. [0015] lines 12 - 14). Fig. 1 sensor 12 shows at least one sensor to sense body stress signals from the user 15 to provide the automatic biofeedback input to the computer 20 (para. [0027] lines 5 – 14). Fig. 1 shows the body stress signals from sensor 12 being communicated to the computer 20 (para. [0014] lines 9 – 10).

#### *Claim 25*

Claim 25 is similar to claim 1 in that it too is directed to a biofeedback system in a computer network for treating stress. In this embodiment the program generates a

dynamically modified schedule of stress reduction exercises personalized to the user.

The schedule of stress reduction exercises are modified according to the compliance of the user with the schedule, user's stress status, and/or user performance, and at least one sensor to sense body stress signals from the user to provide the automatic biofeedback input to the computer.

Basis for claim 25 is found in Figs. 1 and 2 and the corresponding text. Fig. 1 shows a biofeedback system in a computer network (para. [0002] line 1) for treating stress in a user 15 of the computer network comprising a program controlled computer 20 coupled to the computer network for executing a program to generate a dynamically modified schedule of stress reduction exercises personalized to the user 15 (para. [0015] lines 1 - 3) and which stress reduction exercises are to be performed by the user 15 interactively through use of the computer 20 (para. [0008] lines 4 - 6), the computer 20 receiving biofeedback input from the user 15 (para. [0014] lines 6 - 10), the program controlled computer 20 monitoring compliance by the user 15 with the schedule of stress reduction exercises (para. [0015] lines 1 - 2), the schedule being modified according to the compliance of the user 15 with the schedule (para. [0015] lines 2 - 4), user's 15 stress status (para. [0015] lines 6 - 7, 10 - 14), and/or user performance (para. [0015] lines 4 - 5). Fig. 1 shows at least one sensor 12 to sense body stress signals from the user 15 to provide the automatic biofeedback input to the computer 20, the body stress signals being communicated to the computer 20 (para. [0027] lines 5 - 14).

*Claim 13*

Claim 13 is directed to a method of reducing stress using a computer network. The method comprises the steps of automatically inputting personal stress factors relating to a user from sensors through a user's client computer coupled to the computer network. The body stress signals are received from the user at the master computer. A modifiable schedule of stress reducing exercises is generated in the master computer which is personalized to the user and which is to be performed interactively by the user by use of the client computer. Compliance by the user with the schedule of stress reduction exercises on the user's client computer is monitored and can be scored or rated. The schedule can be modified according to the same variety of factors listed in connection with claim 1.

Basis for claim 13 is found in Figs. 1 and 2 which illustrate a method of reducing stress using a computer network. Fig. 2 shows automatically inputting personal stress factors relating to a user from sensors through a user's client computer coupled to the computer network (para. [0017] lines 1 – 4); receiving body stress signals from the user through the user's client computer (para. [0017] lines 4 – 6); generating a modifiable schedule of stress reducing exercises personalized to the user and to be performed interactively by the user by use of the computer based on the personal stress factors relating to the user (para. [0014], lines 1 – 6 and para. [0017] lines 6 – 8); monitoring compliance by the user with the schedule of stress reduction exercises on the user's client computer (para. [0031] lines 5 – 7); and modifying the schedule according to the compliance of the user with the schedule (para. [0032] lines 4 – 7), according to the performance of the user in the stress reduction exercises (para. [0015] lines 4 -5),

according to situational events to which the user is subjected (para. [0015] lines 6 - 7), according to biofeedback from the user during performance of the stress reduction exercises or at times other than during the performance of the stress reduction exercises (para. [0015] lines 7 - 10), according to information input into the computer by the user relating to personalized stress characteristics of the user (para. [0015] lines 10 - 12), and/or according to information input into the computer by the user relating to personalized stress related history of the user (para. [0015] lines 12 - 14).

#### *Claim 26*

Claim 26 is similar to claim 13 in that it is also directed to a method of reducing stress using a computer network, and employs a modifiable schedule according to the compliance of the user with the schedule, user's stress status and/or user performance.

Basis for claim 26 is found in Figs. 1 and 2 and the corresponding text which shows a method of reducing stress using a computer network. Figs. 1 and 2 show automatically inputting personal stress factors relating to a user from sensors 12 through a user's client computer 20 coupled to the computer network (para. [0017] lines 1 - 4); receiving body stress signals from the user 15 through the user's client computer 20 (para. [0017] lines 4 - 6); generating a modifiable schedule of stress reducing exercises personalized to the user 15 and to be performed interactively by the user 15 by use of the computer 20 based on the personal stress factors relating to the user 15 (para. [0014], lines 1 - 6 and para. [0017] lines 6 - 8); monitoring compliance by the user with the schedule of stress reduction exercises on the user's client computer (para. [0031] lines 5 - 7); and modifying the schedule according to the compliance of the user

with the schedule, user's stress status and/or user performance (para. [0015] lines 4 - 14, and para. [0032] lines 4 - 7).

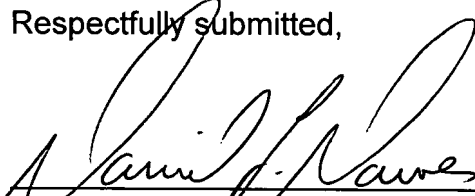
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Respectfully submitted,



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IX. Evidence Appendix

NONE

X. Related Proceedings Appendix

NONE